

KINOSHITA, SN 09/855,563
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IN THE CLAIMS:

1.-10. (Cancelled)

11. (Currently Amended) A system ~~comprising~~ having an
at least two electrical devices, wherein each electric device which functions
both as ~~includes;~~

an induction motor and is selectable in real-time to operate as either
an electric motor for driving ~~machines~~ a load and as a generator to generate
electrical power;

a mechanical power source selectably connectable to the induction
motor, wherein selectable connection is to mechanically drive the induction
motor to operate the same as a generator; and

an electrical power source selectably connectable to the induction
motor, wherein selectable connection is to operate the induction motor as a
motor to drive the load.

~~comprising;~~

~~said electric device, wherein said electric device has structure to function as~~
~~an electric motor for driving a machine; and~~

~~a power source for driving the electric device,~~

~~wherein when said power source supplies mechanical power to the electric~~
~~device, the device functions as an electrical generator to generate electrical power,~~
~~whereby the electric device can respectively function as an electric motor to drive the~~
~~machine and as a generator to generate electrical power.~~

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12. (Currently Amended) The system according to claim 11, further comprising ~~said machine, the load,~~ adapted to be driven by the induction motor when the induction motor ~~said electric device when said electric device~~ functions as ~~said electric the~~ motor.

13. (Currently Amended) The system according to claim 12, wherein ~~said electric device, the induction motor,~~ when functioning as ~~an electric the~~ motor, is an alternating current electric motor, and ~~said machine the load~~ is selected from the group consisting of machine tools and compressors; and wherein the ~~system further comprises another power source for generating a mechanical power, said another~~ mechanical power source being at least one selected from the group consisting of a direct current electric motor, an internal combustion engine, a source of wind power, a source of hydraulic power and a source of manually-generated power.

14. (Currently Amended) The system according to claim 11, wherein ~~said electric device, the induction motor,~~ functioning as ~~a the~~ generator, is electrically connected to an electric power line.

15. (Currently Amended) The system according to claim 11, wherein when ~~the electric device, induction motor is~~ functioning as a generator, and generates electrical power, ~~the electric device induction motor~~ is in a non-load condition and has a speed near a synchronous speed, ~~raised from a stopped condition; and~~

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~~wherein said electric device, in functioning as an electric motor, is an induction motor.~~

16. (Currently Amended) The system according to claim 11, ~~further~~ comprising sensors for detecting conditions of the system, thereby obtaining detected data; and when the electric device changes from a stopped status or a status of driving the ~~machine load~~ to a status of generating electrical power, the stopped status or status of driving the ~~machine load~~ is changed over to the electrical power generation based upon the detected data, whereby the system is operation-controlled.

17. (Currently Amended) The system according to claim 16, wherein said sensors detect a load condition and electrical power supplied by said electrical power source.

18. (Currently Amended) ~~A system having an electric device which functions both as an electric motor for driving a machine and as a generator for electrical power generation, comprising:~~ A system comprising:

at least two electrical devices, wherein each electric device includes:

an induction motor and is selectable in real-time to operate as either an electric motor for driving a load and as a generator to generate electrical power;

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a first mechanical power source selectably connectable to the induction motor, wherein selectable connection is to mechanically drive the induction motor to operate the same as a generator;

a second mechanical power source selectably connectable to the induction motor, wherein selectable connection is to mechanically drive the induction motor to operate the same as a generator;

an first electrical power source selectably connectable to the induction motor, wherein selectable connection is to operate the induction motor as a motor to drive the load; and

a second electrical power source selectably connectable to the induction motor, wherein selectable connection is to operate the induction motor as a motor to drive the load.

~~said electric device, wherein said device has structure to function as an electric motor for driving said machine;~~

~~a first power source for supplying electrical power to said electric device such that the device functions as an electric motor, wherein said first power source supplies electric power to said electric motor such that said electric motor generates mechanical power, whereby said electric motor can drive said machine;~~

~~a driving motor for supplying mechanical power to said electric device to use said electric device as a generator; and~~

~~a second power source for supplying mechanical power to said driving motor.~~

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19. (Currently Amended) The system according to claim 18, wherein said ~~electric device, induction motor,~~ when functioning as an electric motor, is an alternating current electric motor, ~~and the load;~~ said machine is selected from the group consisting of machine tools and compressors, and wherein the first mechanical power source and the second mechanical power source are each being; ~~and said second power source for supplying mechanical power is at least one~~ selected from the group consisting of a direct current electric motor, an internal combustion engine, a source of wind power, a source of hydraulic power and a source of manually-generated power.

20. (New) The system according to claim 11, wherein ones of the induction motor are each selectable as either the electric motor or the generator, independently of other induction motors.

21. (New) The system according to claim 11, wherein the load and the mechanical power source are different from one another.

22. (New) The system according to claim 11, wherein the electrical power source includes connection to alternating current electrical wiring, and the mechanical power source includes connection to the alternating current electrical wiring.

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23. (New) The system according to claim 11, comprising an electrical network including at least one of sensor and control, for changing an operational status of the induction motor from the motor to the generator or vice-versa based upon at least one predetermined condition.

24. (New) The system according to claim 23, wherein the induction motor is operated as the motor upon a predetermined condition of mechanical power of the mechanical power source being disconnected from the induction motor.

25. (New) The system according to claim 23, wherein the induction motor is operated as the generator upon a predetermined condition of a rotational speed of the induction motor becoming greater than a synchronous speed of the induction motor.

26. (New) The system according to claim 23, wherein the induction motor is operated as the generator upon a predetermined condition of the induction motor being disconnected into a free state from the load.

27. (New) The system according to claim 23:
wherein the induction motor is operated as the motor upon a predetermined condition of mechanical power of the mechanical power source being disconnected from the induction motor;

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wherein the induction motor is operated as the generator upon a predetermined condition of a rotational speed of the induction motor becoming greater than a synchronous speed of the induction motor; and

wherein the induction motor is operated as the generator upon a predetermined condition of the induction motor being disconnected into a free state from the load.

28. (New) The system according to claim 18, wherein ones of the induction motor are each selectable as either the electric motor or the generator, independently of other induction motors.

29. (New) The system according to claim 18, wherein the load is different from each of the first mechanical power source and the second mechanical power source.

30. (New) The system according to claim 18, wherein the electrical power source includes connection to alternating current electrical wiring, and at least one of the first mechanical power source and the second mechanical power source includes connection to the alternating current electrical wiring.

31. (New) The system according to claim 18, comprising an electrical network including at least one of sensor and control, for changing an operational

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status of the induction motor from the motor to the generator or vice-versa based upon at least one predetermined condition.

32. (New) The system according to claim 31, wherein the induction motor is operated as the motor upon a predetermined condition of mechanical power of the first mechanical power source and the second mechanical power source being disconnected from the induction motor.

33. (New) The system according to claim 31, wherein the induction motor is operated as the generator upon a predetermined condition of a rotational speed of the induction motor becoming greater than a synchronous speed of the induction motor.

34. (New) The system according to claim 31, wherein the induction motor is operated as the generator upon a predetermined condition of the induction motor being disconnected into a free state from the load.

35. (New) The system according to claim 31:

wherein the induction motor is operated as the motor upon a predetermined condition of mechanical power of the first mechanical power source and the second mechanical power source being disconnected from the induction motor;

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wherein the induction motor is operated as the generator upon a
predetermined condition of a rotational speed of the induction motor becoming
greater than a synchronous speed of the induction motor; and

wherein the induction motor is operated as the generator upon a
predetermined condition of the induction motor being disconnected into a free state
from the load.